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AN AGREEMENT BETWEEN GC & CS AND NEGAT

ON JAPANESE CRYPTANALYTIC TASKS

23 OCTOBER 1944

GC&CS
NEGAT

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NEUTROPROOF STAPLES

AN AGREEMENT BETWEEN G C & C S

AND NEGAT ON JAPANESE CRYPTANALYTIC TASKS

23 October 1944

In order to minimize the use of rapid communication facilities and to promote proper coordination by the most efficient employment of personnel, particularly in the solution and exploitation of those Japanese cryptographic systems which require the combined effort of relatively large numbers of persons, the following points are agreed upon by Op-20-G and G C & C S.

GENERAL AGREEMENT -

1. Op-20-G - FRUPAC - FRUEP will be the exploiting and distributing centres of current operational Communications Intelligence.
2. Op-20-G will coordinate the united effort against Japanese Communications Intelligence and allocate tasks with B.P., of course, free to make suggestions, requests or complaints at any time.
3. G C & C S will take on any tasks allocated by Op-20-G and such tasks will be given full priority.
4. Additionally, in so far as the tasks allocated under (3) permit, G C & C S will do such work as Admiralty may request and any work necessary for training purposes and research.

TRAFFIC -

To be passed to B.S.C. for forwarding to B.P. by bag, in case of JN 25 and any non-current or non-assigned Japanese systems, and by cable or W/T in case of other systems that are being worked currently by B.P. in accordance with assignments from NEGAT.

UNSOLVED SYSTEMS -

B.P., when requested by NEGAT, is to work on any system for which traffic is available at B.P. No traffic is to be supplied on a current basis for passing by cable except when at the request of NEGAT help is sought on a specific assignment.

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BULK ADDITIVE RECOVERY -

B.P. to work on bulk additive recovery only as requested by NEGAT. Requests are to be predicated on the status of systems available for work. NEGAT will normally keep the more recent and operational types.

EXPLOITATION -

In general, B.P. will read such current FLOWERDOWN intercepts as they can with the materials they have available. NEGAT will give such "hole filling" assistance on important current messages as it can when requested by B.P.

INTERCHANGE OF RECOVERIES -

NEGAT will send additives to B.P. by air mail except "hole fillers" and those that apply to current systems assigned to B.P., which of course will go by despatch. Except as indicated above, all current recoveries will be exchanged by despatch and non-current recoveries by bag.

PAST CIPHER PERIODS -

1. B.P. will cooperate on working any back cipher periods upon specific requests from NEGAT - but does not want this phase as its only assignment and would prefer to be asked to search periods with a specific type of useful information as an objective.
2. NEGAT will furnish B.P. with all available aids to facilitate such work. B.P. will furnish NEGAT with all publications and results on any and all cryptanalytic results.

SPECIFIC ASSIGNMENTS TO IMPLEMENT
THIS AGREEMENT AS OF THIS DATE -

1. B.P. will be specifically requested to work JN 25 L-53.
2. Until Nan ciphers become workable B.P. will cooperate with NEGAT on the solution of the system.
3. If and when the Nan ciphers become workable, one or more cipher periods will be assigned to B.P.
4. Special studies or phases of studies may be requested of B.P. as needed.

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5. Subject to the changes indicated in this document, existing arrangements between NEGAT and B.P. with respect to allocations and traffic exchange, will be continued until altered circumstances make adjustments necessary.

6. Future assignments by NEGAT will be in the general spirit of this agreement.

TRANSLATION AND CODE RECOVERY -

1. NEGAT will, from this date on, supply B.P. with one copy of each IBM summary code recovery work-book together with an index to that traffic. However, because of limited facilities, such books can only be furnished on the NEGAT summary print.

2. B.P. will exchange copies of all translations, and the results of all special studies produced in the Japanese systems, with NEGAT.

PUBLICATION EXCHANGE -

NEGAT and B.P. will continue to exchange all technical information including reports and special studies on all branches of the work.

COMMUNICATIONS AGREEMENT -

The Communications Agreement, involving all units concerned with the Japanese problem, is detailed in the attached enclosures A and B.

Enclosure A - Top Secret Memorandum for the Director of Naval Communications, dated 6 October 1944, and signed by A. H. Hillgarth, Capt. R.N.

Enclosure B - Draft of ULTRA Signal from C in C, E.F. to Admiralty dated 6 October 1944.

For G C & C S:

FOR UNITED STATES NAVY:

/s/ E.W.T.
24 October 1944/s/ J.R.R.~~TOP SECRET~~

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ENCLOSURE A

(copy)

6 October 1944

~~TOP SECRET~~MEMORANDUM FOR DIRECTOR OF NAVAL COMMUNICATIONS:

In confirmation of our conversation I have set down the following points as agreed:

1. The proposed Guam - Colombo circuit you so kindly offered will comprise teletype equipment calculated to handle 80,000 groups per day each way. This is expected to be ready for despatch in November, B.A.D. to take delivery in U.S.A. of the equipment for Colombo and ship as rapidly as possible.
2. On this Guam - Colombo circuit FHUEF will receive to the capacity of the circuit all Japanese decryption intelligence, recoveries, crypto-chat and traffic analysis (DISC and DAZE) from Op-20-G and PHUPAC, i.e. the full output from those stations.
3. By the same circuit PHUPAC will receive all Japanese decryption intelligence, recoveries, crypto-chat and traffic analysis from G.C. and C.S. and FHUEF in the same manner, plus whatever load of unique raw material from FHUEF the circuit can additionally carry.
4. If the traffic on this circuit from Guam to Colombo exceeds 80,000 groups, the balance will be transmitted via Melbourne.
5. It is estimated that the non-raw material traffic on this circuit from Colombo to Guam is unlikely to exceed 50,000 groups in the near future, thus allowing a margin of 30,000 groups for raw material. Extra raw material will be sent from FHUEF to PHUPAC through Melbourne.
6. Since the Guam - Colombo circuit will not normally accommodate raw material westbound, raw material received by Op-20-G from PHUPAC will be forwarded to G.C. and C.S. via B.S.C. New York.

In order to avoid double encipherment of raw material at FHUEF, it is agreed that raw material sent from FHUEF via PEAHL to Op-20-G shall be likewise forwarded on by Op-20-G to G.C. and C.S. via B.S.C. New York.

In continuance of present arrangements:-

(a) Unique raw material received at Op-20-G from U.S. and Canadian stations will be forwarded to G.C. and C.S. and unique raw material intercepted by U.K. stations will be forwarded to Op-20-G in both cases via B.S.C., New York.

7. In view of the need for FHUEF to have, as early as possible, all the output outlined in paragraph 2, you are installing a manual circuit at Guam. It is estimated that this should be operative in about 3 weeks and that it will carry upwards of 10,000 groups per day each way. Pending the opening of the teletype circuit, the manual circuit will carry the more urgent PHUSA matter both ways, as much of the balance as possible being sent via Melbourne.

8. The Melbourne - Colombo link will now carry 32,000 groups per day each way, but this should increase to 50,000 shortly.

9. The main purpose of the new circuit is to place PHUPAC and FHUEF in the centre of the PHUSA circuit instead of at the extremities.

~~TOP SECRET~~/s/ A. H. HILLGARTH,
Captain, R.N.

TOP SECRET~~TOP SECRET AND PERSONAL~~ENCLOSURE B
(copy)DRAFT OF SIGNAL.

From: C-INC., H.P.

To: ADMIRALTY

ULTRA.

- 6 October 1944

Para. 1. Admiral Keenan has indicated to me his re-organisation in the Pacific Area and has put forward proposals, with which I agree, for linking up Anderson in this area net work.

Para. 11. Re-organisation in the PACIFIC AREA.

(a) It has been decided that U.S. exploitations on all cyphers will be concentrated in PHUPAC. Only minor systems and traffic analysis will continue to be worked at Melbourne.

(b) With this object in view, arrangements are being made immediately to pass to PHUPAC and Op-20-G by radio teletype all unique raw material intercepted by U.S.N. and R.A.N. intercept stations in Australia.

(c) An intercept station is being established in GUAM which will pass raw material to PHUPAC and Op-20-G by radio teletype.

(d) An intercept station has been established at ADAK to pass raw material in a similar way. Other intercept stations will be established as required.

(e) Intelligence pertaining to Australia and adjacent waters and that concerning major strategic moves will be passed to Melbourne. All intelligence derived from its own processing will be passed by Melbourne on MRUSA.

(f) ULTRA weather information will be passed direct from Navy Weather Central Pearl Harbour to Navy Weather Central MANUS.

Para. 111. In order to assist PHUPAC in functioning efficiently as an exploitation centre and to ensure more rapid exchange of operational intelligence and recoveries on current systems, Admiral Keenan has proposed that PHUPAC be linked to PHUPAC by a radio teletype circuit via GUAM. He has offered to make available the necessary equipment in United States within 60 days.

(b) Arrangements are in hand now to increase the efficiency of the Anderson-Melbourne high speed link to make it possible to pass an increasing volume of operational intelligence between PHUPAC and PHUPAC via Melbourne.

Para. IV. When the radio teletype circuit has been established, the two main exploitation centres PHUPAC and PHUPAC would have three channels for intercommunication.

1. PHUPAC - GUAM - PHUPAC, capacity of about 100,000 groups - to be used primarily for interchange of intelligence and recoveries of current interest.

2. PHUPAC - MELBOURNE - PHUPAC, capacity of about 50,000 groups - to be used for any overflow of intelligence and recoveries and as necessary for raw material.

3. PHUPAC - NEGAT - SKOOL - PHUPAC to be used as necessary if the other two channels are full.

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(copy)

Para. V. (a) For the immediate future there will be no alteration in the existing routing of BRUSA traffic.

(b) In the near future when the Melbourne-Colombo circuit can undertake it, FHUPAC and FHUEF, by mutual arrangement, will commence routing BRUSA traffic via Melbourne, working up to capacity of this link.

(c) When GUAM - ANDERSON radio teletype is in operation, FHUPAC and FHUEF would route BRUSA traffic by this circuit.

Para. VI. Routing of Traffic.

(a) FHUPAC and FHUEF interchange DAZE and DISC traffic, in addition routing their own production to NEGAT and SKOOL respectively.

(b) DAZE and DISC traffic originating in Washington will be passed to FHUPAC and G.C. & C.S.

(c) DAZE and DISC traffic originating in G.C. & C.S. will be passed to Washington and FHUEF.

(d) Melbourne will supply its production of intelligence to FHUPAC and FHUEF direct and will be supplied by them with such intelligence as affects its area.

(e) This routing of traffic will relieve congestion on the Atlantic channels. All that will remain will be Washington and G.C. & C.S.'s own DAZE and DISC traffic.

Para. VII. Raw material from FHUEF to be passed to Washington via FHUPAC when conditions allow.

Para. VIII. It is considered essential to have an exchange of Sig. Int. Naval Liaison Officers at Pearl Harbour and Anderson.

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